

Sml Jan 27, 2017

Work Order ID 154688

154688

Page 1

Monday, December 19, 2016 3:55:04 PM

Item ID: D4634-041 Accept *N900040100* Setup Start *NS1*
Revision ID: Stop *NS2*
Item Name: Fwd, Center Ceiling Panel Assembly
Start Date: 1/3/2017 Start Qty: 1.00 *1* Cust Item ID:
Required Date: 1/17/2017 Req'd Qty: 1.00 *1* Customer:
Reference:

Approvals: Process Plan: VG Date: 16/12/20 Tooling: _____ Date: _____ Run Start *NR1*
QC: _____ Date: _____ SPC (Y/N): _____ Date: _____ Stop *NR2*

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
Draw Nbr	Revision Nbr								
D4634	G								

100

0.00

100

HandThermo

Memo

0.00

Hand Finishing Thermoforming

Pick Kit

DAS
6
9-89

JAN 17 2017

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :				MRB (QSI042) Approval	
Description Work Order Deviation				Disposition				Completed By	
3								Lead hand / Supervisor Approval Verification	
								QC / QA Coordinator Approval	
Root Cause		FAULT CATEGORY							
Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐	No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐	Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐	Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐	Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Misabeled ☐ Fit/Function ☐ Misaligned/off center ☐	Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐				
OTHER : ☐									

Work Order ID 154688***154688***

Page 2

Monday, December 19, 2016 3:55:04 PM

Item ID: D4634-041 Accept ***N900040100*** Setup Start ***NS1***
Revision ID: Stop ***NS2***
Item Name: Fwd, Center Ceiling Panel Assembly
Start Date: 1/3/2017 Start Qty: 1.00 ***1*** Cust Item ID:
Required Date: 1/17/2017 Req'd Qty: 1.00 ***1*** Customer:
Reference:

Approvals: Process Plan: _____ Date: _____ Tooling: _____ Date: _____ Run Start ***NR1***
QC: _____ Date: _____ SPC (Y/N): _____ Date: _____ Stop ***NR2***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
110		0.00							
110									
Small Fab									
Small Fab									
	Memo	0.16							
	BEFORE INTALLING D4728-051, APPLY A 3/16" SEEM OF PLASTIC- WELD 2 ON TOTAL LENGHT OF PART ON EANCH SIDE OF LIGHT, LET DRY FOR ONE HOUR PLASTIC-WELD 2 BATCH: <u>135436</u>								
	1- Assemble as per Dwg D4634-041								
	2- install No Smoking & seat belt symbols								
	3- Install led lights								
	4- Install Air valves								
	5-Install Wiring Harness								
	5-Install wiring harness								
120	QC5- Inspect part completeness to step on W/O	0.00							
120									
QC									
Quality Control	Memo	0.00							

Smb
17/1/25

D 17-01-25 DD

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐			
Date :	Step #:	QTY Effective :		MRB (QS1042) Approval	
Description Work Order Deviation		Disposition		Completed By	
				Lead hand / Supervisor Approval Verification	
				QC / QA Coordinator Approval	
Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Misabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐			
OTHER : ☐					

154688

Monday, December 19, 2016 3:55:04 PM

N900040100

Setup Start *NS1*

Stop *NS2*

Start Date: 1/3/2017 **Start Qty:** 1.00 ***1***

Cust Item ID:

Required Date: 1/17/2017 **Req'd Qty:** 1.00 ***1***

Customer:

Reference:

Approvals: **Process Plan:** _____ **Date:** _____ **Tooling:** _____ **Date:** _____

Run Start *NR1*

QC: _____ Date: _____ SPC (Y/N): _____ Date: _____

Stop ***NR2***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
--------------------------------	--------------------------	----------------------	---------	--------	--------------	---------------	---------------	------------------	----------------

130	Identify as per dwg & Stock Location:_____	0.00
-----	--	------

130

Packaging

Packaging

Memo

PPF154686
0.00

0.00

DA
2
9-8

JAN 26 2017

140	QC21- Final Inspection - Work Order Release	0.00
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140

QC

Quality Control

Memo

0.02

DAS 21 9-89 JAN 26 2017

JAN 26 2017

DAS
21
9-89

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval 		
Description Work Order Deviation				Disposition					
							Completed By		
							Lead hand / Supervisor Approval Verification		
							QC / QA Coordinator Approval		

Root Cause			FAULT CATEGORY							
Environment	☐	No Re-verification	☐	Pressure/Forced	☐	Temperature/Cure	☐	Power Loss/Surge	☐	Positioned Wrong
Design	☐	Operator	☐	Bending	☐	Set-up	☐	Folio/Program	☐	Outside Dimensions
Doc/Data	☐	Offset/Setup	☐	Centre Not Concentric	☐	BOM/Route	☐	Grain	☐	Over/Under tolerance
Equip/Tooling	☐	Supplier	☐	Cracks	☐	Broken/Damage/Defect	☐	Weld	☐	Part Incorrect
Handling/Pre	☐	Training	☐	Crimp/Kink/Ripple/Wave	☐	Inspection Incomplete/Unqualified	☐	Wrong Stock Pulled	☐	Part Lost/Missing
Material	☐	Use for Testing	☐	Cuffs	☐	Contamination	☐	Out of Sequence	☐	Part Moved
Internal Transport	☐	Poor Information	☐	Crushing	☐	Countersink	☐	Off-set	☐	Drawing
Tribal Knowledge	☐	Rushing	☐	Heat Treat	☐	Cut Too Short	☐	Mislabeled	☐	Finish
LOA	☐	Product Improvement	☐	Wave/Twist in Tube	☐	Instructions Incomplete/Unclear	☐	Fit/Function	☐	Misread
Substation	☐	Process Improvement	☐	Marks/Chatter	☐	Drill Holes	☐	Misaligned/off center	☐	Turning Sequence
Past Expiry Date	☐	Manufacturing Process	☐	OTHER :						
Misidentified	☐	Past Due	☐							

Picklist Print

Monday, December 19, 2016 3:55:11 PM

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Work Order ID: 154688

154688

Parent Item: D4634-041

D4634-041

Parent Item Name: Fwd, Center Ceiling Panel Assembly

Start Date: 1/3/2017

Required Date: 1/17/2017

Start Qty: 1.00

Required Qty: 1.00

Comments: IPP Rev. A 12/08/09 New Issue DL
 12/11/08 Document release DL VERIFIED BY:JLM
 Dwg Update DL verf: DD
 DL
 DL
 DL
 IPP Rev B
 IPP Rev C 13/07/09
 IPP Rev D Dwg Update 13/12/23
 IPP REV E Dwg update 14/01/09
 IPP Rev F Dwg. update 14/02/03
 IPP Rev G Dwg. Update 15/01/27 DL

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
D4652-5 *D4652-5* Air Valve, 1.25 Id Disk Type		Manufactured	No			100	Each	0.0000	2	2			Smb
D4743-1 *D4743-1* Speaker Grill		Manufactured	No			100	Each	20.0000	2	2			
				<u>Location</u>		<u>Loc Qty</u>		<u>Loc Code</u>					
				MF005		20							
				149065		20							
MS21044-N08 *MS21044-N08* Nut		Purchased	No			100	Each	34.0000	8	8			
				<u>Location</u>		<u>Loc Qty</u>		<u>Loc Code</u>					
				ST302		34							
				m131452		34							
MS24693-BB50 *MS24693-BB50* SCREW		Purchased	No			100	Each	117.0000	8	8			
				<u>Location</u>		<u>Loc Qty</u>		<u>Loc Code</u>					
				ST288		117							
				m130207		117							

B122691
 **
 DAS 6 9-89
 JAN 13 2017
 2
 DAS 6 9-89
 JAN 12 2017
 8
 DAS 6 9-89
 JAN 12 2017
 8
 DAS 6 9-89
 8

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :				MRB (QSI042) Approval	
Description Work Order Deviation				Disposition				Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval	
Root Cause		FAULT CATEGORY							
Environment ☐	☐ No Re-verification	☐ Pressure/Forced	☐ Temperature/Cure	☐ Power Loss/Surge	☐ Positioned Wrong				
Design ☐	☐ Operator	☐ Bending	☐ Set-up	☐ Folio/Program	☐ Outside Dimensions				
Doc/Data ☐	☐ Offset/Setup	☐ Centre Not Concentric	☐ BOM/Route	☐ Grain	☐ Over/Under tolerance				
Equip/Tooling ☐	☐ Supplier	☐ Cracks	☐ Broken/Damage/Defect	☐ Weld	☐ Part Incorrect				
Handling/Pre ☐	☐ Training	☐ Crimp/Kink/Ripple/Wave	☐ Inspection Incomplete/Unqualified	☐ Wrong Stock Pulled	☐ Part Lost/Missing				
Material ☐	☐ Use for Testing	☐ Cuffs	☐ Contamination	☐ Out of Sequence	☐ Part Moved				
Internal Transport ☐	☐ Poor Information	☐ Crushing	☐ Countersink	☐ Off-set	☐ Drawing				
Tribal Knowledge ☐	☐ Rushing	☐ Heat Treat	☐ Cut Too Short	☐ Mislabeled	☐ Finish				
LOA ☐	☐ Product Improvement	☐ Wave/Twist in Tube	☐ Instructions Incomplete/Unclear	☐ Fit/Function	☐ Misread				
Substation ☐	☐ Process Improvement	☐ Marks/Chatter	☐ Drill Holes	☐ Misaligned/off center	☐ Turning Sequence				
Past Expiry Date ☐	☐ Manufacturing Process								
Misidentified ☐	☐ Past Due	OTHER :							

Picklist Print

Monday, December 19, 2016 3:55:11 PM

Page 2

Work Order ID: 154688

154688

Parent Item: D4634-041

D4634-041

Parent Item Name: Fwd, Center Ceiling Panel Assembly

Start Date: 1/3/2017

Required Date: 1/17/2017

Start Qty: 1.00

Required Qty: 1.00

NAS1149DN832J

Purchased

No

100

Each

1,682.000

8

8

NAS1149DN832.J

Washer

**

DAS
6
9-89

JAN 12 2017

Location

Loc Qty

Loc Code

ST264

1682

M135297

1682

8

D4634-141

Manufactured

No

100

Each

0.0000

1

1

D4634-141

Fwd, Center Ceiling Replacement Panel Assembly

**

154712

SMB

D4646-1

Manufactured

No

100

Each

23.0000

2

2

D4646-1

Plenum Cap Assembly

**

JAN 13 2017

DAS
6
9-89

Location

Loc Qty

Loc Code

MF009

23

125003

11

152626

12

2

D4728-047

Manufactured

No

100

Each

19.0000

1

1

D4728-047

Advisory Light, Fwd

**

JAN 13 2017

DAS
6
9-89

Location

Loc Qty

Loc Code

MF003

2

117929

2

over001

17

124732

17

1

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐			
Date : _____	Step #: _____	QTY Effective : _____		MRB (QSI042) Approval	
Description Work Order Deviation		Disposition		Completed By	
				Lead hand / Supervisor Approval Verification	
				QC / QA Coordinator Approval	
Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Misabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐			
OTHER : _____					

Picklist Print

Monday, December 19, 2016 3:55:11 PM

Work Order ID: 154688

154688

Parent Item: D4634-041

D4634-041

Parent Item Name: Fwd, Center Ceiling Panel Assembly

Start Date: 1/3/2017

Required Date: 1/17/2017

Start Qty: 1.00

Required Qty: 1.00

D4728-051 Manufactured No

100 Each 15.0000 1 1

D4728-051

Cabin Lights #1

**

JAN 13 2017

DAS
6
9-89

Location	Loc Qty	Loc Code
MF001	4	
122713	4	
over001	11	
122713	11	

PLT1.5M-M Purchased No

100 Each 2,735.000 7 7

PI T1 5M-M

Tie Wrap

**

JAN 13 2017

DAS
6
9-89

Location	Loc Qty	Loc Code
ST585	2735	
m129712	2735	

50-009-2 Purchased No

100 Each 83.0000 1 1

50-009-2

Grommet

**

JAN 13 2017

DAS
6
9-89

Location	Loc Qty	Loc Code
ST582	83	
m131501	23	
m135442	60	

2351-20-27-C3C Purchased No

100 Each 55.0000 1 1

2351-20-27-Z3CT

2351-20-27-C3C

STUD

**

JAN 13 2017

DAS
6
1-89

Location	Loc Qty	Loc Code
ST579	55	
m128068	11	
m130318	44	

DQA: _____ Date: _____

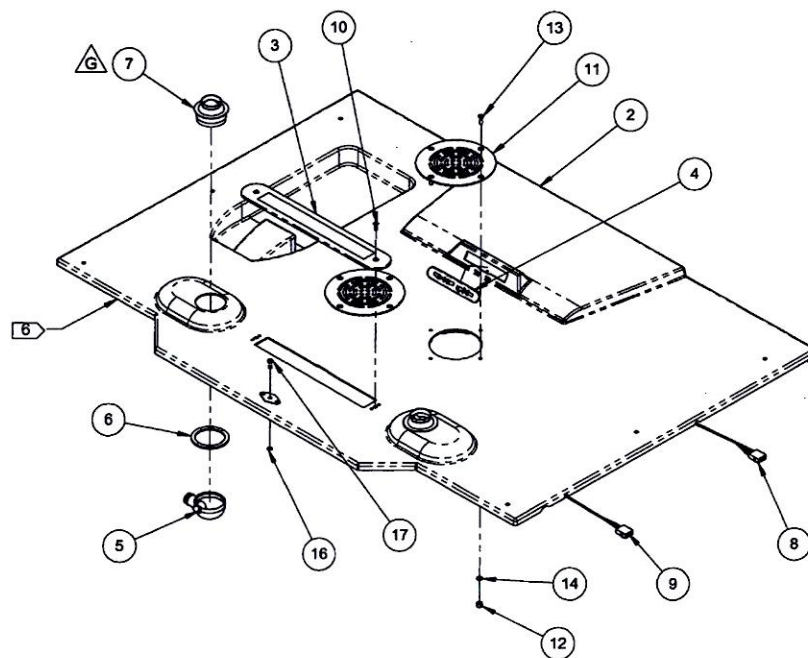


WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date : _____		Step # : _____		QTY Effective : _____			MRB (QSI042) Approval Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval		
Description Work Order Deviation				Disposition					
Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Misabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐							
		☐ OTHER : _____							



D4634-041 FWD, CENTER CEILING PANEL ASSY

RETURN TO
ENGINEERING
UNCONTROLLED COPY
SUBJECT TO AMENDMENT
WITHOUT NOTICE
WORK ORDER
NO. 154688

RELEASED

2015 JAN 26

ECN 14-634 4P

NOTES:

- 1) MATERIAL: N/A
- 2) FINISH: N/A
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
- 6) IDENTIFICATION: IDENTIFY PER QSI 044 6.4, ON SMOOTH SIDE
- 7) WEIGHT: 7.0 lbs
- 8) INSTALL D4728-0471-051 WIRE HARNESS PER QSI 048

ITEM NO.	QTY. -041	P/N	DESCRIPTION
1	X	D4634-041	FWD, CENTER CEILING PANEL ASSY
2	1	D4634-141	FWD, CENTER CEILING REPLACEMENT PANEL ASSY
3	1	D4638-1 (REF)	LED LIGHT (REF PART OF D4728-051)
4	1	D4645-1 (REF)	NO SMOKING & FASTEN BELT LIGHT (PART OF D4728-047)
5	2	D4646-1	PLENUM CAP ASSEMBLY
6	2	D4652-3 (REF)	MOUNTING NUT (PART OF D4652-5)
7	2	D4652-5	AIR VALVE, 1.16 ID DISK TYPE
8	1	D4728-047	ADVISORY LIGHT (FWD) HARNESS ASSEMBLY
9	1	D4728-051	CABIN LIGHT #1 HARNESS ASSEMBLY
10	2	N/A (REF)	SCREW (PART OF D4638-1)
11	2	D4743-1	SPEAKER GRILL
12	8	MS21044-N08	NUT, SELF-LOCKING
13	8	MS24693-BB50	SCREW, CSK 100°
14	8	NAS1149DN832J	WASHER
15	7	PLT1.5M-M	TIE-WRAP (OR PLT1.5M-C)
16	1	50-009-2	GROMMET
17	1	2351-20-27-C3C	DZUS STUD, OVAL HEAD

G	D4652-5 WAS D4652-1 (ZN D4-1, D4-3, D4-5); 10.28 WAS 10.20 (ZN B8-10, B5-12, B5-14); TIE-WRAP & MOUNTING PAD QTY CHANGE; MOUNTING PAD EDGE DISTANCE CHANGE	RF	14.11.28
F	REVISE BOM (ZN D4-7); ADD DIM (ZN B8-9); 10.20 WAS 10.05 (ZN B8-10, B5-12, B5-14); ADD DETAIL V (ZN C4-10, B4-12, C4-14, A4-16); CHANGE PROTRUDE SECTION DIMS TO REF (ZN C7-10, C7-12, C7-14)	RF	14.02.03
E	REVISED BOM (ZN C4-1, C4-3, D4-5, C4-7, C4-8, C4-9); ADDED NOTE 11) (ZN D5-7, A8-7, D5-8, A8-8, D7-9, A8-9); 3.70 WAS 3.83 (ZN C6-11); 1.88 WAS 2.00 (ZN D7-13); 6.13 WAS 6.25 (ZN B6-15); REVISE DETAIL B (ZN A8-16)	RF	14.01.09
D	ADDED PLT1.5M-M (ZN C4-5, C6-6); D5021-1 (ZN D4-7, D5-7); D5021-3 (ZN D4-8, D5-8); D5021-5 (ZN D4-9, B7-9); MPNY-760S-9-C (ZN D4-9, B7-9); Ø 0.129 (ZN B4-11, B4-13); DETAIL "U" (ZN C2-17); 3.83 WAS 3.87 (ZN C6-11); 2.00 WAS 2.02 (ZN D6-13); REVISE NOTE 8) & 10) (ZN A8-7, A8-8, A8-9); & NOTE 1) (ZN A8-10, A8-12, A8-14); 3.80 WAS 3.84 (ZN D4-17, B8-17); REMOVED D4694-71-041/043/045/047; D4647-31-71-8; DIMENSION SHIFTED DUE ADDING D5021-1/-3/-5; Ø 0.250 WAS Ø 0.206 (ZN D6-11, C3-13 & D6-15)	RF	13.12.09
C	REVISE GENERAL NOTES (ZN A8-7, A8-8, A8-9) & BOM (ZN D4-1, D4-3, D4-5, D4-7, D4-8); Ø 0.206 WAS Ø 0.207 (ZN D6-11, C3-13, C6-15) ADD DIM. (ZN B6-7, B7-7, D7-8, & D6-8)	RF	13.06.18
B	ADDED D4634-141/-143/-145 (ZN B4-7, B4-8, B4-9); REVISE D4634-041/-042/-043/-044 PART LIST & GENERAL NOTES; ADD DETAIL S,R,S,T SHT 10, 12, 14, 16, 17	RF	12.11.30
A	NEW ISSUE	RF	12.07.25

REV.	DESCRIPTION	BY	DATE
DESIGN	RF		
DRAWN	RF		
CHECKED	AK		
MFG. APPR.	DL		
APPROVED	HS		
DE APPR.	DS		
DATE	14.11.28		

DART AEROSPACE LTD
HAWKESBURY, ONTARIO, CANADA

DRAWING NO. **D4634**
REV. G
SHEET 1 OF 17
SCALE
NTS

CENTER CEILING PANELS
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DQA: _____ Date: _____



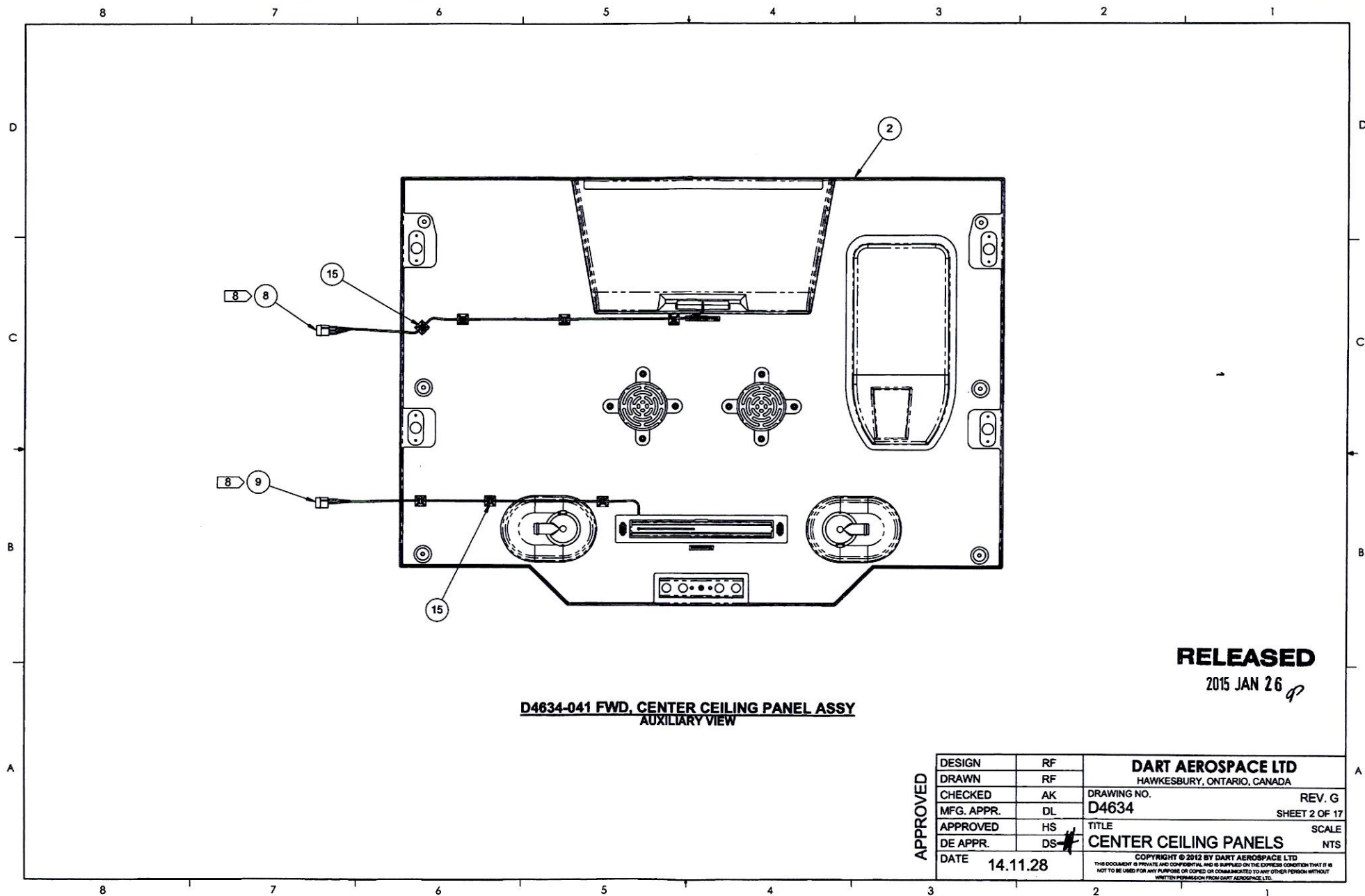
WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :				MRB (QSI042) Approval 	
Description Work Order Deviation				Disposition					
								Completed By	
								Lead hand / Supervisor Approval Verification	
								QC / QA Coordinator Approval	

Root Cause				FAULT CATEGORY							
Environment	☐	No Re-verification	☐	Pressure/Forced	☐	Temperature/Cure	☐	Power Loss/Surge	☐	Positioned Wrong	☐
Design	☐	Operator	☐	Bending	☐	Set-up	☐	Folio/Program	☐	Outside Dimensions	☐
Doc/Data	☐	Offset/Setup	☐	Centre Not Concentric	☐	BOM/Route	☐	Grain	☐	Over/Under tolerance	☐
Equip/Tooling	☐	Supplier	☐	Cracks	☐	Broken/Damage/Defect	☐	Weld	☐	Part Incorrect	☐
Handling/Pre	☐	Training	☐	Crimp/Kink/Ripple/Wave	☐	Inspection Incomplete/Unqualified	☐	Wrong Stock Pulled	☐	Part Lost/Missing	☐
Material	☐	Use for Testing	☐	Cuffs	☐	Contamination	☐	Out of Sequence	☐	Part Moved	☐
Internal Transport	☐	Poor Information	☐	Crushing	☐	Countersink	☐	Off-set	☐	Drawing	☐
Tribal Knowledge	☐	Rushing	☐	Heat Treat	☐	Cut Too Short	☐	Mislabeled	☐	Finish	☐
LOA	☐	Product Improvement	☐	Wave/Twist in Tube	☐	Instructions Incomplete/Unclear	☐	Fit/Function	☐	Misread	☐
Substation	☐	Process Improvement	☐	Marks/Chatter	☐	Drill Holes	☐	Misaligned/off center	☐	Turning Sequence	☐
Past Expiry Date	☐	Manufacturing Process	☐	OTHER : _____							
Misidentified	☐	Past Due	☐								



D4634-041 FWD. CENTER CEILING PANEL ASSY
AUXILIARY VIEW

RELEASED

2015 JAN 26 *q*

APPROVED

DESIGN	RF	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
DRAWN	RF		
CHECKED	AK	DRAWING NO.	REV. G
MFG. APPR.	DL	D4634	SHEET 2 OF 17
APPROVED	HS	TITLE	SCALE
DE APPR.	DS	CENTER CEILING PANELS	NTS
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DQA: _____ Date: _____

WORK ORDER NON-CONFORMANCE / UPDATE



QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :				MRB (QSI042) Approval 	
Description Work Order Deviation				Disposition					
								Completed By	
								Lead hand / Supervisor Approval Verification	
								QC / QA Coordinator Approval	

Root Cause			FAULT CATEGORY							
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LOA	☐	Product Improvement	☐	Wave/Twist in Tube	☐	Instructions Incomplete/Unclear	☐	Fit/Function	☐	Misread
Substation	☐	Process Improvement	☐	Marks/Chatter	☐	Drill Holes	☐	Misaligned/off center	☐	Turning Sequence
Past Expiry Date	☐	Manufacturing Process	☐	OTHER :						
Misidentified	☐	Past Due	☐							

Daryl Leger

From: David Shepherd
Sent: Thursday, May 14, 2015 12:35 PM
To: Nigel Forbes; Bill Beckett
Cc: Roberto Fuentes; Linda Lacelle; Mario Poulin; Daryl Leger; Harvey Siemens
Subject: RE: 139 Ceilings Deviation

Nigel,

Thanks for the clarification. I have a much better understanding of what happened here. My assumption had been that we were holding off ordering parts until the newer, cheaper parts were approved so that we could reduce our costs. There is certainly no Engineering objection to using the existing stock.

On the lights, the part number did not change (still D4638-1) even though the supplier did, so this is not a deviation. Both the Bruce p/n and Emteq p/n are acceptable.

On the vents, the part number changed from D4652-1 to D4652-5 because the appearance of the part was quite different, so all drawings now call up D4652-5. Suggest we get Roberto to issue a DEO that allows the D4652-1 to be used in place of D4652-5 until stock is depleted.

In both cases, we should set aside a portion of the old stock to support customers who already have the kits. Maybe 10 of the lights and 30 of the vents, or something like that.

Regards,
David

From: Nigel Forbes
Sent: May-14-15 8:31 AM
To: David Shepherd; Bill Beckett
Cc: Roberto Fuentes; Linda Lacelle; Mario Poulin; Daryl Leger; Harvey Siemens
Subject: RE: 139 Ceilings Deviation

David,

Apologies for the delay in replying. After reviewing the history on these items, here's the background:

- The lights, long lead time (90+ days) and minimum quantities to get them at \$765 a piece. Plus, these had to be shipped to Mr. Rowe to incorporate in the harnesses and that added to the lead time. So again, we placed blanket P.O based on forecast and we ended up with the these quantities and we can't return them. See below.

From: Shonda Wallace/ATL/Satair <sow@satair.com>
Date: May 14, 2015 at 10:09:59 AM EDT
To: Linda Lacelle <llacelle@dartaero.com>
Subject: RE: BR9741-401-001

Linda,

Unfortunately we do not buy parts back.

Best regards,

Shonda Wallace
Customer Order Specialist

Tel: +1 404 675 6328